

PATENT
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
(kernco01.008)

Applicant: Jacques Vanier

Confirmation No.: 5492

Application No: 10/560,462

Group Art Unit: 2815

Filed: December 14, 2005

Examiner: Michael B. Shingleton

Title: *Determining and Setting the frequency modulation index of a laser in a CPT Frequency Standard*

Commissioner for Patents
Alexandria, VA 22313-1450

Response to a non-final Office action under 37 C.F.R. 1.111

Status of the prosecution

The application was originally filed with claims 1-23; in response to a restriction requirement made on July 21, 2009, Applicant amended his claims to overcome the restriction requirement, provisionally elected claims 1-15 as amended for examination, and traversed the restriction requirement as regards the amended claims. See the section *How the amendment to claim 1 overcomes Examiner's reasons for the restriction requirement* in Applicants' response to the restriction requirement.

In a first Office action with a notification date of 1/14/2010, Examiner rejected claims 1-15 under 35 U.S.C. 112, first paragraph as failing to comply with the enablement requirement, rejected claims 1-10 under 35 U.S.C. 112, second paragraph as being vague and indefinite, and rejected claims 1-15 under 35 U.S.C. 102 as being anticipated by the prior art shown in FIG. 1 and described in U.S. Patent 6,320,472, Vanier, *Atomic frequency standard*, filed Jan. 26, 1999 and issued Nov. 20, 2001. Applicant has canceled claims 16-23 as required by the election of claims 1-15, has amended claim 1 in a manner which does not materially affect the claim's scope to clarify the claim and is traversing all of the rejections. Citations to Applicant's Specification in the following use

paragraph numbers in the application's US Patent Application Publication 2008/0317075 A1, published Dec 25, 2008.

Please amend the claims as follows: